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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Trade name : ES Compleat OAT Prediluted
(EG - Ethylene Glycol)
Product code : 36074EDJ (5L jar); 36074EDP (20L pail); 36074EDD (208L drum); 36075M (1000L tote); 36074ED (bulk)
Product group : Trade product
Document no. : LT36135EU

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Professional use
Use of the substance/mixture : Coolant
Antifreeze

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Cummins Filtration
Entwistle Road
Daventry,
Northants, NN11 8NG - The United Kingdom
T +44 (0)1788 853600

Cummins Filtration
Zone Industrielle du Grand Guelen
29556 Quimper Cedex 9 - France
T +33 (0) 2 98 76 49 49

Cummins Filtration
Catenbergstraat 1
2840 Rumst - Belgium
T +32 3 456 3000
productinfosds@cummins.com

1.4. Emergency telephone number

Emergency number : +44 (0) 1235 239670 (Carechem24)
Only available during office hours.


Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0844 892 0111 (UK only, 24/7, healthcare professionals only)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute Tox. 4 (Oral) H302

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STOT RE 2 H373

Full text of H-statements: see section 16

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Signal word : Warning

Hazardous ingredients : ethanediol; ethylene glycol

Hazard statements (CLP) : H302 - Harmful if swallowed.
H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).

Precautionary statements (CLP) : P260 - Do not breathe fume, mist, spray, vapours.
P264 - Wash hands, forearms and face thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P301+P312 - IF SWALLOWED: Call a POISON CENTER, a doctor if you feel unwell.
P314 - Get medical advice/attention if you feel unwell.
P501 - Dispose of contents and container to an approved waste disposal plant.

2.3. Other hazards

Other hazards : PBT/vPvB data : Not applicable.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures


Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ethanediol; ethylene glycol substance with a Community workplace exposure limit	(CAS-No.) 107-21-1 (EC-No.) 203-473-3 (EC Index) 603-027-00-1	47,56 – 49,5	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
Decanedioic acid, disodium salt	(CAS-No.) 17265-14-4 (EC-No.) 241-300-3	1,43 – 1,74	Eye Irrit. 2, H319
sodium benzoate	(CAS-No.) 532-32-1 (EC-No.) 208-534-8	1,13 – 1,38	Eye Irrit. 2, H319

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

Additional advice : First aider: Pay attention to self-protection!. See also section 8 . Never give anything by mouth to an unconscious person. Show this safety data sheet to the doctor in attendance. Get immediate medical advice/attention. Inhalation of high vapour concentrations can cause CNS-depression and narcosis.

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Inhalation	: Remove casualty to fresh air and keep warm and at rest. Artificial respiration and/or oxygen may be necessary. Call a physician if irritation develops or persists.
Skin contact	: Wash with plenty of water/. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. In case of doubt or persistent symptoms, consult always a physician.
Eyes contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of doubt or persistent symptoms, consult always a physician.
Ingestion	: Call a physician immediately. Never give anything by mouth to an unconscious person. Induce vomiting, but only if victim is fully conscious.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	: Inhalation of aerosol may cause irritation to the upper respiratory tract. Exposure may result in reddening, tears and itching of the eyes and soreness in the nose and throat, together with coughing. Causes damage to organs. Liver and kidney injuries may occur. Pulmonary irritation. Headache. Nausea. Vomiting.
Skin contact	: Not expected to present a significant skin hazard under anticipated conditions of normal use.
Eyes contact	: Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
Ingestion	: Harmful if swallowed. Drowsiness. Weakness. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache). The absorption of this product into the body may lead to the formation of methaemoglobine that, in sufficient concentration, causes cyanosis. prolonged exposure : Bladder /. Kidney injury may occur. The following symptoms may occur: Vomiting. Unconsciousness. Nausea . Abdominal pain.
Chronic symptoms	: May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Prompt action is critical. CNS depression !.

SECTION 5: Firefighting measures

5.1. Extinguishing media


Suitable extinguishing media	: Water spray, Alcohol resistant foam, Carbon dioxide, Dry extinguishing powder.
Unsuitable extinguishing media	: Strong water jet .

5.2. Special hazards arising from the substance or mixture

Specific hazards	: Combustible liquid. Vapours are heavier than air and may spread along floors.
Explosion hazard	: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO ₂). Toxic and corrosive fumes are released. Formaldehyde.

5.3. Advice for firefighters

Precautionary measures fire	: Use water spray or fog for cooling exposed containers.
Firefighting instructions	: Evacuate area. Use extinguishing media appropriate for surrounding fire.
Protection during firefighting	: Wear a self-contained breathing apparatus and chemical protective clothing. Use self-contained breathing apparatus and chemically protective clothing.
Other information	: Prevent fire fighting water from entering the environment.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

For non-emergency personnel : Stay upwind/keep distance from source. Provide adequate ventilation. Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothing. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

6.1.2. For emergency responders

For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Provide adequate ventilation. Stop leak if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8 . Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Use only in well ventilated areas. Do not ingest. Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothing. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8 . After use replace the closing cap immediately. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials.

Hygiene measures : Keep good industrial hygiene. Wash hands and face before breaks and immediately after handling of the product. Keep away from food, drink and animal feedingstuffs. When using do not eat, drink or smoke. Separate working clothes from town clothes. Remove contaminated clothing and shoes.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry, cool and well-ventilated place. Do not store near or with any of the incompatible materials listed in section 10. Keep locked up. Good housekeeping - e.g. inspection procedures will ensure that there are no leaks to soil.

Incompatible substances or mixtures : Strong oxidizing agents. Acids. Bases. Reducing agent. alkali metals.

Heat and ignition sources : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Special rules on packaging : Containers which are opened should be properly resealed and kept upright to prevent leakage. After use replace the closing cap immediately.

Packaging materials : Keep only in the original container.

7.3. Specific end use(s)

Coolant. Antifreeze.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ethanediol; ethylene glycol (107-21-1)		
EU	IOEL TWA	52 mg/m ³

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ethanediol; ethylene glycol (107-21-1)		
EU	IOEL TWA [ppm]	20 ppm
EU	IOEL STEL	104 mg/m ³
EU	IOEL STEL [ppm]	40 ppm
EU	Notes	Possibility of significant uptake through the skin
Austria	MAK (OEL TWA)	26 mg/m ³
Austria	MAK (OEL TWA) [ppm]	10 ppm
Austria	MAK (OEL STEL)	52 mg/m ³
Austria	MAK (OEL STEL) [ppm]	20 ppm
Bulgaria	OEL TWA	52 mg/m ³
Bulgaria	OEL TWA [ppm]	20 ppm
Bulgaria	OEL STEL	104 mg/m ³
Bulgaria	OEL STEL [ppm]	40 ppm
Croatia	GVI (OEL TWA) [1]	52 mg/m ³
Croatia	GVI (OEL TWA) [2]	20 ppm
Croatia	KGVI (OEL STEL)	104 mg/m ³
Croatia	KGVI (OEL STEL) [ppm]	40 ppm
Cyprus	OEL TWA	52 mg/m ³
Cyprus	OEL TWA [ppm]	20 ppm
Cyprus	OEL STEL	104 mg/m ³
Cyprus	OEL STEL [ppm]	40 ppm
Czech Republic	PEL (OEL TWA)	50 mg/m ³
Denmark	OEL TWA [1]	26 mg/m ³ 10 mg/m ³ (atomized)
Denmark	OEL TWA [2]	10 ppm
Estonia	OEL TWA	52 mg/m ³ (total concentration of aerosol and vapor)
Estonia	OEL TWA [ppm]	20 ppm (total concentration of aerosol and vapor)
Estonia	OEL STEL	104 mg/m ³ (total concentration of aerosol and vapor)
Estonia	OEL STEL [ppm]	40 ppm (total concentration of aerosol and vapor)
Finland	HTP (OEL TWA) [1]	50 mg/m ³
Finland	HTP (OEL TWA) [2]	20 ppm
Finland	HTP (OEL STEL)	100 mg/m ³
Finland	HTP (OEL STEL) [ppm]	40 ppm
France	VME (OEL TWA)	52 mg/m ³ (indicative limit-vapor)
France	VME (OEL TWA) [ppm]	20 ppm (indicative limit-vapor)
France	VLE (OEL C/STEL)	104 mg/m ³ (indicative limit-vapor)
France	VLE (OEL C/STEL) [ppm]	40 ppm (indicative limit-vapor)
Germany	Occupational exposure limit value (mg/m ³) (TRGS900)	26 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	Occupational exposure limit value (ppm) (TRGS900)	10 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Gibraltar	OEL TWA	52 mg/m ³
Gibraltar	OEL TWA [ppm]	20 ppm

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ethanediol; ethylene glycol (107-21-1)		
Gibraltar	OEL STEL	104 mg/m ³
Gibraltar	OEL STEL [ppm]	40 ppm
Greece	OEL TWA	125 mg/m ³ (vapor)
Greece	OEL TWA [ppm]	50 ppm (vapor)
Greece	OEL STEL	125 mg/m ³ (vapor)
Greece	OEL STEL [ppm]	50 ppm (vapor)
Hungary	AK (OEL TWA)	52 mg/m ³
Hungary	CK (OEL STEL)	104 mg/m ³
Ireland	OEL TWA [1]	10 mg/m ³ (particulate) 52 mg/m ³ (vapour)
Ireland	OEL TWA [2]	20 ppm (vapour)
Ireland	OEL STEL	30 mg/m ³ (calculated-particulate) 104 mg/m ³ (vapour)
Ireland	OEL STEL [ppm]	40 ppm (vapour)
Italy	OEL TWA	52 mg/m ³
Italy	OEL TWA [ppm]	20 ppm
Italy	OEL STEL	104 mg/m ³
Italy	OEL STEL [ppm]	40 ppm
Latvia	OEL TWA	52 mg/m ³
Latvia	OEL TWA [ppm]	20 ppm
Lithuania	IPRV (OEL TWA)	25 mg/m ³ (aerosol and vapor)
Lithuania	IPRV (OEL TWA) [ppm]	10 ppm (aerosol and vapor)
Lithuania	TPRV (OEL STEL)	50 mg/m ³ (aerosol and vapor)
Lithuania	TPRV (OEL STEL) [ppm]	20 ppm (aerosol and vapor)
Luxembourg	OEL TWA	52 mg/m ³
Luxembourg	OEL TWA [ppm]	20 ppm
Luxembourg	OEL STEL	104 mg/m ³
Luxembourg	OEL STEL [ppm]	40 ppm
Malta	OEL TWA	52 mg/m ³
Malta	OEL TWA [ppm]	20 ppm
Malta	OEL STEL	104 mg/m ³
Malta	OEL STEL [ppm]	40 ppm
Netherlands	MAC-TGG (OEL TWA)	52 mg/m ³ (fume) 10 mg/m ³ (droplets)
Netherlands	MAC-15 (OEL STEL)	104 mg/m ³
Poland	NDS (OEL TWA)	15 mg/m ³
Poland	NDSch (OEL STEL)	50 mg/m ³
Portugal	OEL TWA	52 mg/m ³ (indicative limit value)
Portugal	OEL TWA [ppm]	20 ppm (indicative limit value)
Portugal	OEL STEL	104 mg/m ³ (indicative limit value)
Portugal	OEL STEL [ppm]	40 ppm (indicative limit value)
Portugal	OEL C	100 mg/m ³ (aerosol only)
Romania	OEL TWA	52 mg/m ³
Romania	OEL TWA [ppm]	20 ppm
Romania	OEL STEL	104 mg/m ³

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ethanediol; ethylene glycol (107-21-1)		
Romania	OEL STEL [ppm]	40 ppm
Slovakia	NPHV (OEL TWA) [1]	52 mg/m ³
Slovakia	NPHV (OEL TWA) [2]	20 ppm
Slovakia	NPHV (OEL C)	104 mg/m ³
Slovenia	OEL TWA	52 mg/m ³
Slovenia	OEL TWA [ppm]	20 ppm
Slovenia	OEL STEL	104 mg/m ³
Slovenia	OEL STEL [ppm]	40 ppm
Spain	VLA-ED (OEL TWA) [1]	52 mg/m ³ (indicative limit value)
Spain	VLA-ED (OEL TWA) [2]	20 ppm (indicative limit value)
Spain	VLA-EC (OEL STEL)	104 mg/m ³
Spain	VLA-EC (OEL STEL) [ppm]	40 ppm
Sweden	NGV (OEL TWA)	25 mg/m ³ (limit value applies to the combined concentration of vapor and aerosol-aerosol and vapor)
Sweden	NGV (OEL TWA) [ppm]	10 ppm (limit value applies to the combined concentration of vapor and aerosol-aerosol and vapor)
Sweden	KTV (OEL STEL)	104 mg/m ³ (limit value applies to the combined concentration of vapor and aerosol-aerosol and vapor)
Sweden	KTV (OEL STEL) [ppm]	40 ppm (limit value applies to the combined concentration of vapor and aerosol-aerosol and vapor)
United Kingdom	WEL TWA (OEL TWA) [1]	10 mg/m ³ (particulates) 52 mg/m ³ (vapour)
United Kingdom	WEL TWA (OEL TWA) [2]	20 ppm (vapour)
United Kingdom	WEL STEL (OEL STEL)	104 mg/m ³ (vapour) 30 mg/m ³ (calculated-particulate)
United Kingdom	WEL STEL (OEL STEL) [ppm]	40 ppm (vapour)
Norway	Grenseverdi (OEL TWA) [1]	52 mg/m ³ (total sum of gas and particulate matter (aerosol) of the substance-aerosol)
Norway	Grenseverdi (OEL TWA) [2]	20 ppm (total sum of gas and particulate matter (aerosol) of the substance-aerosol)
Norway	Korttidsverdi (OEL STEL)	104 mg/m ³ (total sum of gas and particulate matter (aerosol) of the substance-aerosol)
Norway	Korttidsverdi (OEL STEL) [ppm]	40 ppm (total sum of gas and particulate matter (aerosol) of the substance-aerosol)
Switzerland	MAK (OEL TWA) [1]	26 mg/m ³ (aerosol, vapour)
Switzerland	MAK (OEL TWA) [2]	10 ppm (aerosol, vapour)
Switzerland	KZGW (OEL STEL)	52 mg/m ³ (aerosol, vapour)
Switzerland	KZGW (OEL STEL) [ppm]	20 ppm (aerosol, vapour)
Australia	OES TWA [1]	10 mg/m ³ (particulate) 52 mg/m ³ (vapour)
Australia	OES TWA [2]	20 ppm (vapour)
Australia	OES STEL	104 mg/m ³ (vapour)
Australia	OES STEL [ppm]	40 ppm (vapour)
Canada (Quebec)	Plafond (OEL C)	127 mg/m ³ (mist and vapour)

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ethanediol; ethylene glycol (107-21-1)		
Canada (Quebec)	Plafond (OEL C) [ppm]	50 ppm (mist and vapour)
USA - ACGIH	ACGIH OEL TWA [ppm]	25 ppm (vapor fraction)
USA - ACGIH	ACGIH OEL STEL	10 mg/m ³ (inhalable particulate matter, aerosol only)
USA - ACGIH	ACGIH OEL STEL [ppm]	50 ppm (vapor fraction)
sodium benzoate (532-32-1)		
Germany	Occupational exposure limit value (mg/m ³) (TRGS900)	10 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-inhalable fraction)
Slovenia	OEL TWA	10 mg/m ³ (inhalable fraction)
Slovenia	OEL STEL	20 mg/m ³ (inhalable fraction)


8.2. Exposure controls

Engineering measure(s)	: Provide adequate ventilation. Use only in area provided with appropriate exhaust ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Organisational measures to prevent /limit releases, dispersion and exposure : See also section 7 .
Personal protective equipment	: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hand protection	: Protective gloves complying with EN 374. Impervious gloves : Butyl caoutchouc (butyl rubber). NBR (Nitrile rubber) . Neoprene . Breakthrough time : >8h. Thickness of the glove material: >0,3mm. The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.
Eye protection	: tightly fitting safety goggles /. Safety glasses (EN166)
Body protection	: Wear chemical resistant apron. Wear work clothes with long sleeves.
Respiratory protection	: Not required for normal conditions of use. In case of insufficient ventilation, wear suitable respiratory equipment. full face mask (DIN EN 136) (EN 136). Half-face mask (DIN EN 140) (EN 140). Filter type: A/P (EN 141). Self-contained breathing apparatus (EN 133) .
Thermal hazard protection	: Not required for normal conditions of use. Use dedicated equipment.
Environmental exposure controls	: Avoid release to the environment. Comply with applicable Community environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Colour	: red.
Odour	: almost odourless.
Odour threshold	: No data available
pH	: 8,2 – 9
Relative evaporation rate (butylacetate=1)	: No data available
Melting / freezing point	: No data available
Freezing point	: No data available
Initial boiling point and boiling range	: 108,5 °C
Flash point	: No data available

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Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable,(Liquid)
Vapour pressure	: No data available
Vapour density	: No data available
Relative density	: No data available
Solubility	: Miscible with : Water.
Partition coefficient n-octanol/water	: No data available
Kinematic viscosity	: 2,27 cSt
Dynamic viscosity	: No data available
Explosive properties	: Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidising properties	: Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.
Explosive limits	: No data available

9.2. Other information

VOC content : No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Combustible. Reference to other sections: 10.4 & 10.5.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. See Section 7 for information on safe handling.

10.5. Incompatible materials

Strong oxidizing agents . Strong acids . Strong bases . alkali metals . Reducing agent . See Section 7 for information on safe handling.

10.6. Hazardous decomposition products

Burning produces noxious and toxic fumes. Hazardous decomposition products. Carbon oxides. Formaldehyde .

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed.

ATE CLP (oral)	1082,251 mg/kg bodyweight
ethanediol; ethylene glycol (107-21-1)	
LD50/oral/rat	4700 mg/kg
LD50/dermal/rat	10600 mg/kg
sodium benzoate (532-32-1)	
LD50/oral/rat	> 2000 mg/kg
LD50/dermal/rabbit	> 2000 mg/kg

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: 8,2 – 9

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Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: 8,2 – 9
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

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Kinematic viscosity	2,27 mm ² /s
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Other information : Symptoms related to the physical, chemical and toxicological characteristics. Reference to other sections 4.2.

SECTION 12: Ecological information
12.1. Toxicity

Environmental properties : No data is available on the product itself. Information given is based on data on the components and the ecotoxicology of similar products. Not classified.

ethanediol; ethylene glycol (107-21-1)

LC50 - Fish [1]	41000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 - Crustacea [1]	46300 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	14 – 18 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])

sodium benzoate (532-32-1)

LC50 - Fish [1]	> 1000 (420 – 558) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	< 650 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

12.2. Persistence and degradability
**ES Compleat OAT Prediluted
(EG - Ethylene Glycol)**

Persistence and degradability	No data available.
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12.3. Bioaccumulative potential
**ES Compleat OAT Prediluted
(EG - Ethylene Glycol)**

Partition coefficient n-octanol/water	No data available
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ethanediol; ethylene glycol (107-21-1)


Partition coefficient n-octanol/water	-1,93
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sodium benzoate (532-32-1)

BCF - Fish [1]	(no bioaccumulation)
Partition coefficient n-octanol/water	-2,13

12.4. Mobility in soil
**ES Compleat OAT Prediluted
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Ecology - soil	This information is not available.
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12.5. Results of PBT and vPvB assessment

ES Compleat OAT Prediluted (EG - Ethylene Glycol)	
Results of PBT assessment	Not applicable

12.6. Other adverse effects

Additional information : No information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Avoid release to the environment. Dispose of empty containers and wastes safely. See Section 7 for information on safe handling. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations.

Additional information : Delivery to an approved waste disposal company. In accordance with local and national regulations.

European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : This material and its container must be disposed of as hazardous waste
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities
The following Waste Codes are only suggestions:
07 02 04* - other organic solvents, washing liquids and mother liquors /
150110 - packaging containing residues of or contaminated by dangerous substances .

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
Not applicable				

14.6. Special precautions for user

- Overland transport


No data available

- Transport by sea

No data available

- Air transport

No data available

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- Inland waterway transport

No data available

- Rail transport

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Code: IBC : Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	ES Compleat OAT Prediluted (EG - Ethylene Glycol) ; ethanediol; ethylene glycol ; Decanedioic acid, disodium salt
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Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : No data available

15.1.2. National regulations

France

No ICPE	Installations classées Désignation de la rubrique	Code Régime	Rayon
na	Not Applicable	na	na

Germany

Regulatory reference : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1)

German storage class (LGK) : LGK 10 - Combustible liquids

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

TA Luft : 5.2.5 Organic Substances

Netherlands

Waterbezwaarlijkheid : B (4) - Weinig schadelijk voor in het water levende organismen

Saneringsinspanningen : B - Lozing minimaliseren; toepassen van best uitvoerbare technieken

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

Denmark

ES Compleat OAT Prediluted (EG - Ethylene Glycol)

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product


15.2. Chemical safety assessment

Not applicable.

SECTION 16: Other information

Indication of changes:

	Composition		
	REACH Candidate List product (SDS)		
	Indication of changes		
1.1	Product code	Modified	
1.2	Use of the substance/mixture		
1.3	SDS address	Modified	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]		
2.2	Hazard statements (CLP)		
2.2	Precautionary statements (CLP)		
4.2	Skin contact		
5.2	Specific hazards	Modified	
6.1	For emergency responders	Modified	
6.2	Environmental precautions	Modified	
7.2	Heat and ignition sources	Added	
7.2	Special rules on packaging	Added	
7.3	Specific end use(s)	Added	
8.2	Thermal hazard protection	Added	
8.2	Environmental exposure controls	Added	
9.1	Kinematic viscosity		
9.1	Initial boiling point and boiling range		
9.1	Solubility		
9.1	pH		
10.1	Reactivity	Modified	
11.2	Adverse health effects caused by endocrine disrupting properties	Added	
12.6	Adverse effects on the environment caused by endocrine disrupting properties	Added	
13.1	European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC)	Modified	
15.1	Water hazard class (WGK)	Modified	

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15.1	Waterbezwaarlijkheid	Modified	
15.2	Chemical safety assessment		
16	Sources of key data used to compile the datasheet		

Abbreviations and acronyms:

	ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods Code LEL = Lower Explosive Limit/Lower Explosion Limit UEL = Upper Explosion Limit/Upper Explosive Limit REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
	CSR = CSR = Chemical Safety Report
	EC50 = Median Effective Concentration
	LD50 = Median lethal dose
	LC50 = Median lethal concentration
	NA = Not applicable
	N.O.S. = Not Otherwise Specified
	DNEL = DNEL = Derived No Effect Level
	PNEC = Predicted No Effect Concentration
	TLV = Threshold limits
	TWA = time weighted average
	STEL = Short term exposure limit
	persistent, bioaccumulating and toxic (PBT).
	vPvB = very persistent and very bioaccumulating
	WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

Sources of key data used to compile the datasheet : ECHA (European Chemicals Agency). Manufacturer/Supplier. LOLI.

Training advice : Manipulations are to be done only by qualified and authorised persons. Normal use of this product shall imply use in accordance with the instructions on the packaging. Training staff on good practice.

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
 Classification according to Regulation (EC) No. 1272/2008 [CLP]
 Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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